

SYSTEM AND METHOD FOR COOLING MULTIPLE LOGIC MODULES

ABSTRACT OF THE DISCLOSURE

A method and system of cooling hardware, sensing hardware, and supporting code streams that enables a non-redundant liquid cooling system to be used seamlessly in conjunction with an air cooling backup solution. The result offers system speed and reliability benefits of liquid cooling except for the brief occasions when the primary cooling system has failed and air cooling takes over. Until the liquid cooling is repaired, system clocks are automatically slowed to be compatible with the circuit speeds possible at the higher temperatures associated with air cooling. When the liquid cooling is repaired, the system clocks are automatically returned to their normal fast state. Depending on the circuit technology used, a supplied voltage may be varied while being air cooled.